

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/003655 A1

(51) International Patent Classification⁷: **F25D 3/06**, 31/00

(21) International Application Number:
PCT/AU2004/000457

(22) International Filing Date: 8 April 2004 (08.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003903368 2 July 2003 (02.07.2003) AU

(71) Applicant (for all designated States except US): **BRE-
VILLE PTY LIMITED** [AU/AU]; Building 2, Port Air
Industrial Estate, 1A Hale St, Botany, New South Wales
2019 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HOARE, Richard**

[AU/AU]; Building 2, Port Air Industrial Estate, 1A Hale
St, Botany, New South Wales 2019 (AU). **DAVENPORT,
David** [AU/AU]; Building 2, Port Air Industrial Estate, 1A
Hale St, Botany, New South Wales 2019 (AU).

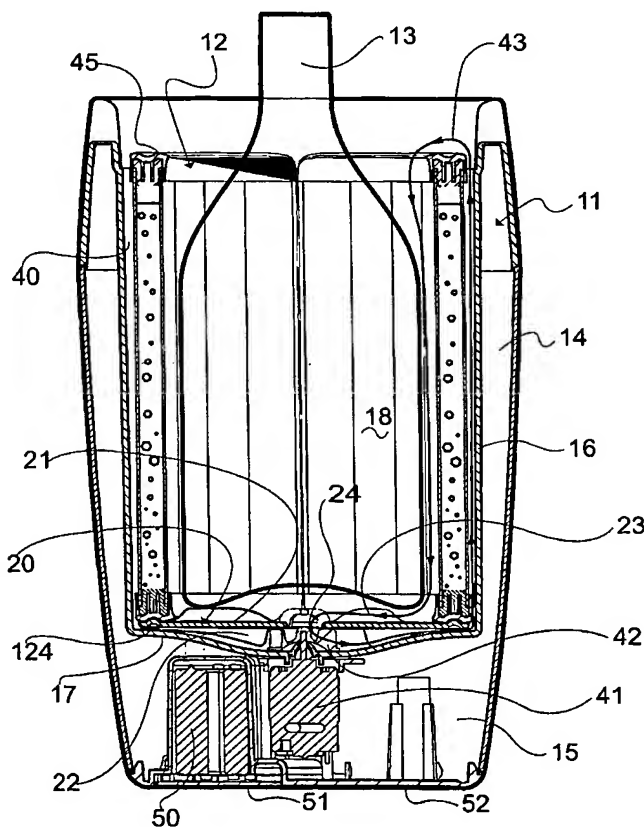
(74) Agent: **MOLINS, Michael**; Suite 5, Level 6, 139 Mac-
quarie Street, Sydney, New South Wales 2000 (AU).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: **CHILLER**



(57) Abstract: A chiller for a container such as a wine
bottle is disclosed. The chiller includes an insulated
reservoir. Located within the reservoir are one or more
reusable cold storage packs, known as freezer bricks.
The bricks define a cooling ring that conforms to the
interior of the container and define an annular gap
between an exterior surface of the ring and an interior
surface of the reservoir. An impeller is located at the
bottom of the reservoir. The combination of ring and
impeller establishes a vertical recirculation pattern that
achieves rapid chilling.



GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*